In the Claims:

1. (Original) Automated storage system for storing and picking articles, comprising:

a device for separating delivered articles into packing units and transferring the latter onto trays,

a tray storage facility for storing the packing units on the trays,

a retrieval conveying system for removing and feeding the packing units in sequence for loading onto order load carriers, and

a loading station for loading the packing units in a defined loading sequence onto the order load carriers.

- 2. (Original) Storage system according to claim 1, wherein in the tray storage facility one packing unit is situated on each tray.
- 3. (Original) Storage system according to claim 1, wherein the trays each have openings, through which lifting pins engage in order to lift a packing unit from the tray.
- 4. (Original) Storage system according to claim 1, having a pallet storage facility for storing the articles on incoming load carriers.
- 5. (Original) Storage system according to claim 1, wherein the retrieval conveying system has a sorting device for trays.
- 6. (Original) Storage system according to claim 1, wherein the retrieval conveying system comprises computer-controlled rack-mounted take-off machines.

- 7. (Currently Amended) Storage system according to <u>claim</u> elaims 1, wherein the tray storage facility is designed for storing trays of a plurality of defined dimensions.
- 8. (Original) Storage system according to claim 1, wherein the loading station has at least one loading machine for automated loading of the order load carriers with the packing units.
- 9. (Currently Amended) Storage system according to claim 8, wherein a plurality of, preferably four, retrieval paths of the retrieval conveying system are associated with each loading machine.
- 10. (Original) Storage system according to claim 8, having a rotary apparatus for rotating the trays and packing units situated thereon into a defined position for feeding to the loading machine.
- 11. (Original) Storage system according to claim 1, having a tray-vibrating device for defined positioning of a packing unit on the tray.
- 12. (Original) Storage system according to claim 1, having a packing-unit tilting device for tilting a packing unit and for depositing the tilted packing unit on the tray.
- 13. (Original) Storage system according to claim 1, having a load-carrier tilting device for tilting load carriers for the purpose of loading laterally enclosed load carriers.
- 14. (Original) Storage system according to claim 1, wherein the tray storage facility has storage modules for collating the packing units into article groups.

15-19. (Canceled)

- 20. (Currently Amended) Method of picking and storing articles in a storage facility, comprising the steps:
 - (a) separation of the stored articles into packing units,
 - (b) transfer of the packing units onto trays,

- (c) storage of the packing units situated on the trays in a tray storage facility used as a buffer,
 - (d) logging of a pick order and of the packing units required to complete said order,
 - (e) retrieval of the packing units needed for the pick order from the tray storage facility,
 - (f) sorting of the packing units into a defined sequence, and
- (g) transfer of the packing units onto order load carriers in a loading order determined by the defined sequence,

Wherein:

steps (a) and (b) are done by using a device for separating delivered articles into packing units and transferring the packing units onto trays,

step (c) is done by using a tray storage facility for storing the packing units on the trays,

step (e) is done by using a retrieval conveying system for removing and feeding the packing units in sequence for loading onto order load carriers, and

step (g) is done by using a loading station for loading the packing units in a defined loading sequence onto the order load carriers.

- 21. (Original) Method according to claim 20, wherein one packing unit is stored on each tray.
- 22. (Original) Method according to claim 20 or 21, wherein trays having a plurality of predefined dimensions are used for storage.
- 23. (Original) Method according to claim 20, wherein trays with through-openings are used for storage in the tray storage facility.
- 24. (Original) Method according to claim 23, wherein the step (g) comprises the lifting of a packing unit from the tray by lifting means, which engage through the through-openings.

- 25. (Original) Method according to claim 20, wherein the packing units are supported from below throughout the method steps (c) to (g).
- 26. (Original) Method according to claim 20, wherein method step (g) is effected fully automatically.
- 27. (Original) Method according to claim 26, wherein the method steps (a) to (f) are likewise effected fully automatically.
- 28. (Original) Method according to claim 20, further comprising the method step (h) of wrapping protective means around the load stack formed on the order load carrier in step (g).
- 29. (Original) Method according to claim 20, wherein a loading aid is used for loading of the order load carrier.
- 30. (Original) Method according to claim 20, comprising the step of tilting a laterally enclosed order load carrier for the purpose of loading with the packing units.